(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: **24.10.2001 Bulletin 2001/43**

(51) Int Cl.7: **G06F 9/318**

(43) Date of publication A2: **04.04.2001 Bulletin 2001/14**

(21) Application number: 00308563.6

(22) Date of filing: 29.09.2000

(84) Designated Contracting States:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Designated Extension States:

AL LT LV MK RO SI

(30) Priority: 01.10.1999 US 411140

(71) Applicant: Hitachi, Ltd. Chiyoda-ku, Tokyo (JP)

(72) Inventors:

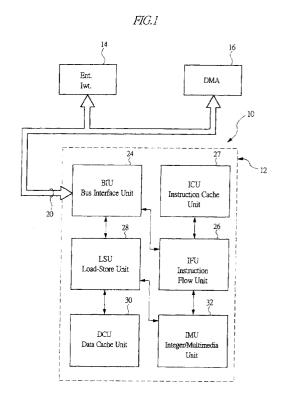
Krishnan, Sivaram
 Los Altos, California 94024 (US)

 Debbage, Mark Cupertino, California 95014 (US)

- Ziesler, Sebastian Havluj San Jose, California 95118 (US)
- Roy, Kanad Santa Clara, California 95054 (US)
- Sturges, Andrew Craig Bathford, Bath BA1 7RT (GB)
- Biswas, Prasenjit Saratoga, California 95070 (US)
- (74) Representative: Calderbank, Thomas Roger et al MEWBURN ELLIS York House
 23 Kingsway
 London WC2B 6HP (GB)

(54) Processor architecture for executing two different fixed-length instruction sets

(57) A processor element, structured to execute a 32-bit fixed length instruction set architecture, is backward compatible with a 16-bit fixed length instruction set architecture by translating each of the 16-bit instructions into a sequence of one or more 32-bit instructions. Switching between 16-bit instruction execution and 32-bit instruction execution is accomplished by branch instructions that employ a least significant bit position of the address of the target of the branch to identify whether the target instruction is a 16-bit instruction or a 32-bit instruction.





EUROPEAN SEARCH REPORT

Application Number EP 00 30 8563

Category	Citation of document with in of relevant passa		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)	
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Υ	* column 5, line 20	- column 6, line 25			
A	* column 11, line 54 * column 15, line 45 *	4 - line 64 * 5 - column 16, line 33	2 23-25		
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Y		ESIGN, XX, XX,	9-11, - 19-21	TECHNICAL FIELDS	
		paragraph 4 - column		SEARCHED (Int.Cl.7)	
A	EP 0 199 173 A (HITA 29 October 1986 (198 * column 11, line 30 *		1-7,14, 16-18		
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A	US 3 577 189 A (COC) 4 May 1971 (1971-05- * column 4, line 36	9-11, 19-21			
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	The present search report has b	een drawn up for all claims			
)*************************************	Place of search Date of completion of the search		l	Examiner	
	THE HAGUE 30 August 2003		Mo	oraiti, M	
X : part Y : part doci	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with anoth ument of the same category inclogical background	E : earlier patent after the filing er D : document cit L : document cit	ed in the application and for other reason	ublished on, or on ns	
O : non	written disclosure rmediate document			same patent family, corresponding	



Application Number

EP 00 30 8563



EUROPEAN SEARCH REPORT

Application Number EP 00 30 8563

Category	Citation of document with indicated of relevant passages		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
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LACK OF UNITY OF INVENTION SHEET B

Application Number EP 00 30 8563

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-8,14-18,22-26

Processor architecture for executing two different fixed-length instruction sets $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right$

2. Claims: 9-13,19-21

Prepare target instruction

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 00 30 8563

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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